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Final Technical Report

1. USGS Award Number G12PX00007
2. Title of the Award Earthquake Hazards Program Preparation and Printing of EERI's Spectra Journal
3. Award Dates (MM/YY) From 12/16/2011-12/15/2012
4. Institution and Address: Earthquake Engineering Research Institute
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5. Publications 2010 Haiti Earthquake Special issue

On January 12, 2010 at 4:53 p.m. local time, a magnitude 7.0 earthquake struck the Republic of Haiti, with an epicenter located approximately 25 km south and west of the capital city of Port-au-Prince. Near the epicenter of the earthquake, in the city of Leogane, it is estimated that 80%-90% of the buildings were critically damaged or destroyed. According to the Government of Haiti, the earthquake left more than 316,000 dead or missing, 300,000 injured and over 1.3 million homeless. EERI sent out a reconnaissance team to research the impact the earthquake had over several disciplines, including seismological aspects, geotechnical, lifelines, structural performance and socioeconomic impact. These findings were published in EERI's Earthquake Spectra Journal, Volume 27, Number S1. This publication is available for purchase at <http://earthquakespectra.org/toc/eqsa/27/S1>

2010 Maule, Chile, Earthquake Special Issue

At 3:34 a.m. local time (06:34:14UTC) on Saturday, 27 February 2010, a great Earthquake of an 8.8 magnitude struck the central south region of Chile. The earthquake occurred as a thrust faulting on the interface between the Nazca Plate and the South American Plate, with the rupture zone extending over an area approximately 500 km long by 100 m wide. Over 12 million people experienced intensity VII or stronger shaking. The earthquake produced a tsunami that caused major damage locally over more than 500 km of coastline. These events resulted in over 500 deaths. Over 81,000 dwelling units were destroyed, and another 109,000 suffered major damage. EERI sent out a reconnaissance team to research the impact the earthquake had covering seismology, tectonics and geotechnical damage patterns, earthquake and tsunami damage assessment, building and industrial facilities, and bridges, ports and other lifelines. These findings were published in EERI's Earthquake Spectra Journal, Volume 28, Number S1. This publication is available for purchase at <http://earthquakespectra.org/action/doSearch?searchText=chile>

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